



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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www.miamidade.gov/economy

Soprema, Inc.
310 Quadral Drive
Wadsworth, OH 44281

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Soprema Self-Adhered Modified Bitumen Roofing Systems over Lightweight Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0205.07 and consists of pages 1 through 19.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0603.17
Expiration Date: 02/22/16
Approval Date: 02/05/15
Page 1 of 19

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS
Deck Type: Lightweight Concrete
Maximum Design Pressure: -542.5psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Soprabase	39" x 99' (3 sq.)	ASTM D4601	Oxidized asphalt, polyester reinforced, sand-surfaced base sheet. For use as a base/ply sheet only.
Colvent SA	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied self-adhering strips on back side
Sopra 4897	39" x 41'	ASTM D4897	Fiberglass reinforced, smooth surfaced, modified bitumen venting base sheet for mechanically attaching to substrate.
Colvent TG	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side.
Elastophene Sanded	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Colphene Sanded	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene SP 2.2	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene SP 2.2	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Elastophene SP 3.0	39" x 49' (1 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colphene SP 3.0	39" x 49' (1 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Elastophene Flam	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene Flam 2.2	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene 180 Sanded	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Colphene 180 Sanded	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene HS	39" x 66' (2 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Sanded 3.0	39" x 33' (1sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripped.
Elastophene SP 2.2	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene SP 2.2	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Elastophene SP 3.0	39" x 49' (1 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colphene SP 3.0	39" x 49' (1 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Elastophene GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Flam GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Sopralene 180 Sanded 2.2	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt or cold adhesive.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene 180 SP 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene 180 SP 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 SP 3.0	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top.
Soprafix [F]	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix Base 613	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive.
Soprafix Base 622	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive.
Sopralene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 250	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 Ultra FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Colphene 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene 250 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Sopralene 250 Ultra FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Colphene 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 Ultra FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 GR 3.5	39" x 33' (1sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom and colored granules on top. Applied by heat welding or ribbon stripping.
Sopralene Flam 180 FR GR 3.5	39" x 33' (1sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and colored granules on top. Applied by heat welding or ribbon stripping.
Sopralene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene Flam 250 Ultra FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 250 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam Antirock	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Sopralast 50 TV Alu	Various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Sopralast 50 TV Alu Sanded	Various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Soprastar Flam	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding.
Soprastar Stick	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a release film covered self-adhering bottom side and a reflective white top surface.
Sopralene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colphene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Sopralene Flam Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a plastic burn-off film on the top.
Elastophene Stick FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, granule surfaced, fiberglass reinforced membranes.
Colphene FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, granule surfaced, fiberglass reinforced membranes.
Elastophene Stick HR FR GR	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, granule surfaced, polyester reinforced membranes.
Colphene HR FR GR	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, granule surfaced, polyester reinforced membranes.
Elastocol 500	Various	ASTM D41	Asphalt primers.
Elastocol Stick	Various	ASTM D41	Asphalt primers.
Elastocol Stick Zero	Various	ASTM D41	Asphalt primers.
ALSAN Flashing™	1.25 gallon pail or 3.75 gallon pail	Proprietary	One part polyurethane/bitumen resin, moisture cure compound.
ALSAN Polyfleece	4", 8" or 39" wide by 50' long	Proprietary	Non-woven polyester reinforcement used in the ALSAN Flashing system.
COLPLY Flashing Cement	5 gallon pail	Proprietary	Elastomeric bitumen based mastic compound.
Soprawalk	39" x 26' (3/4 sq.)	Proprietary	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and mineral granules on the top. Applied by hot asphalt, cold adhesive or ribbon stripping.
FM Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Plastomeric bitumen based cold adhesive.
FM Adhesive (VOC)	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
COLPLY Adhesive	5 gallon pail or 55 gallon drum	Proprietary	Polymer modified cold process membrane adhesive.
COLPLY Modified Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
COPLY EF Adhesive	5 gallon pail	Proprietary	Solvent free, polymeric adhesive.
Soprema PV Adhesive	5 gallon pail	Proprietary	A solvent free, two-component adhesive used in the application of PV laminates.
Soprapstar Adhesive	5 gallon pail or 55 gallon drum	Proprietary	SBS modified bitumen based cold adhesive.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
N/A	N/A	N/A

APPROVED FASTENERS:

Table 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Tri-Fixx System	Fastening system for base sheet attachment to lightweight concrete, gypsum or cementitious wood fiber decks.	3" diameter plate with various length fasteners	Soprema, Inc.

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

System Number	Manufacturer	Application
1.	Generic	Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
2.	Soprema, Inc.	Gravel applied at 400 lbs./sq., adhered with FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY EF Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive at 4 gal./sq.
3.	Karnak Corporation	Karnak #97 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal./sq.
4.	Soprema, Inc.	Cural Aluminizer applied at an application rate of 2 gal./sq.
5.	Thermo Manufacturing Systems, LLC	Super Prep Roof Coating applied in two coats at an application rate of 1.5 gal./sq./coat.
6.	United Coatings Manufacturing Company	Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq., and one finish coat at a rate of 1.5 gal./sq.
7.	Insulating Coatings Corporation	Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat.
8.	Henry Company	HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat.
9.	National Coating Corp.	Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat.
10.	Soprema, Inc.	R-Nova Roof Coating
11.	Generic	Semi-ceramic coated colored granules.

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Atlantic & Caribbean Roof Consulting, LLC	ACRC 03008	TAS 114	07/11/03
Factory Mutual Research	3002351	FM 4470	02/28/03
	3029098	FM 4470	10/25/07
	3023749	FM 4470	09/28/06
	3047439	FM 4470	07/22/13
	3045101	FM 4470	11/05/12
	3046765	FM 4470	02/15/13
	3036182	FM 4470	07/31/09
	3024311	FM 4470	11/01/06
	3045734	FM 4470	04/04/12
Underwriters Laboratories	R11436	UL 790	06/18/13
Exterior Research & Design, LLC.	2757.02.05	ASTM D6163/D6164	02/03/05
	2777.09.05-R2	TAS 114	04/18/07
	2761.09.03	TAS 114	09/02/03
Trinity ERD	S12370.03.09-1	ASTM D6164	03/06/09
	S12370.03.09-2	ASTM D6164	03/06/09
	S12370.03.09-3	ASTM D6162	03/06/09
	S11440.11.10-4	ASTM D2178	11/17/10
	S11440.11.10-3-R2	ASTM D4601	08/26/14
	S11440.12.10-1-R1	ASTM D6163	06/07/12
	S32700.12.10-R2	ASTM D6162	07/07/14
	S35860.12.11-1	ASTM D2178	12/12/11
	S35860.12.11-2	ASTM D4601	12/12/11
	S35860.05.12-1-R2	ASTM D6163	03/14/13
	S35860.05.12-2-R3	ASTM D6164	08/29/14
	S35860.05.12-3-R1	ASTM D6164	05/08/12
	S43210.11.14	ASTM D1876	11/10/14
	S44110.09.14-3	ASTM D6163	09/08/14
	S44110.08.14-5	ASTM D6164	08/29/14
	S43400.08.14-5	ASTM D6163	08/26/14
	S43400.08.14-6	ASTM D6164	08/26/14
	S43400.08.14-7	ASTM D6164	08/08/14
	S43400.09.14-9	ASTM D6164	09/02/14
	S43400.09.14-10	ASTM D6298	09/08/14
	S44110.09.14-7C	ASTM D6164	09/02/14
PRI Construction Materials Technologies, LLC	SOP-049-02-01	ASTM D1644/D2196	05/31/12
	SOP-043-02-01	ASTM D4601	02/27/12
	SOP-042-02-01	ASTM D4601	02/27/12
	SOP-041-02-01	ASTM D2178	02/27/12
	SOP-040-02-01	ASTM D2178	02/27/12
	SOP-010-02-01.03	TAS-138	07/26/11
	SOP-050-02-01	ASTM D3019	07/12/12



APPROVED ASSEMBLIES:

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-Insulated

Deck Description: Elastizell Range II Cellular Lightweight Insulating Concrete, Min. 200 psi. over steel deck.

System Type E(1): Base sheet mechanically fastened.

All General and System Limitations apply.

Deck: Wheeling Corrugated BW36-22 GALV G90 steel deck is welded with 5/8" diameter puddle welds at every corrugation, avg. 6" o.c. into purlins spaced 5 ft. o.c. Deck overlaps are secured with three Traxx/1 fasteners evenly spaced between purlins. A slurry coat of Elastizell Range II Cellular Concrete, min. 200 psi., 36 pcf wet density, is used to fill the corrugations, followed by a 1/8" slurry coat. Followed by an optional layer of minimum 2" thick Holey Board. A minimum 2-1/2" thick top coat of min. 200 psi. Elastizell Range II Cellular Concrete is applied.

Base Sheet: One layer of Soprafix [F] or Soprafix Base 613 fastened to the deck as described. Attach base sheet using Tri-Fixx Fasteners spaced 8" o.c. in a 5" lap. The side lap and fastener row is encapsulated using a 8" wide strip of Soprafix or Soprafix Base 622, torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or Sopralene Flam 250, torch-applied with 3" wide laps.

Membrane: Soprapstar Stick, Elastophene Stick HR FR GR, Colphene HR FR GR, Elastophene Stick FR GR or Colphene FR GR, self-adhered to sand surfaced base or ply membrane primed with Elastocol 500, Elastocol Stick or Elastocol Stick Zero applied at a rate of 1/2 gal./sq., or AquaTac Primer applied at 1 gal./sq.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -45 psf. (See General Limitation #7)

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-Insulated

Deck Description: Mearlcrete Lightweight Insulating Concrete, Min. 250 psi. over steel deck.

System Type E(2): Base sheet mechanically fastened.

All General and System Limitations apply.

Deck: Min. 22 ga. Type BV galvanized steel deck is welded with 3/8" welding washers at every corrugation, avg. 6" o.c. into purlins spaced 5 ft. o.c. Deck overlaps are secured with two Traxx/1 fasteners evenly spaced between purlins.

LWC Deck: A slurry coat of Min. 250 psi. Mearlcrete Lightweight Concrete, 40 pcf wet density, is used to fill the corrugations, followed by a 1/8" slurry coat. Followed by an optional layer of minimum 1" thick Holey Board. A minimum 2" thick top coat of Min. 250 psi. Mearlcrete Lightweight Concrete is applied and allowed to dry for a min. 24 hours.

Base Sheet: One layer of Soprafix [F] or Soprafix Base 613 fastened to the deck as described. Attach base sheet using Tri-Fixx Fasteners spaced 8" o.c. in a 5" lap. The side lap and fastener row is encapsulated using a 8" wide strip of Soprafix or Soprafix Base 622, torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5 or Colphene 180 SP 3.5, torch-applied with 3" wide laps.

Membrane: Soprastar Stick, Elastophene Stick HR FR GR, Colphene HR FR GR, Elastophene Stick FR GR or Colphene FR GR, self-adhered to sand surfaced base or ply membrane primed with Elastocol 500, Elastocol Stick or Elastocol Stick Zero applied at a rate of 1/2 gal./sq., or AquaTac Primer applied at 1 gal./sq.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
 Surfacing is Required for smooth or sanded surfaced field cap membranes.
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system

Maximum Design Pressure: -45 psf. (See General Limitation #7)

Membrane Type:	SBS
Deck Type 4:	Lightweight Concrete, Non-Insulated
Deck Description:	Celcore HS Cellular Lightweight Insulating Concrete, Min. 200 psi, over structural concrete deck.
System Type F(1):	Base sheet adhered to substrate
All General and System Limitations apply.	
Deck:	Primed structural concrete followed by one layer of Elastophene Stick FR GR or Colphene FR GR, self-adhered.
LWC Deck:	Celcore HS Cellular Lightweight Insulating Concrete, Min. 200 psi., wet cast density of 38 lb./ft ³ . Min. 1 inch Holey Board placed into the wet concrete. Following day, Min. 200 psi. 2 inch Celcore HS Cellular Concrete placed over board. Celcore PVA Curing Compound spray applied at a rate of 0.33 gal./sq.
Primer:	Primed with AquaTac Primer applied at a rate of 1 gal./sq., Elastocol Stick or Elastocol Stick Zero applied at ½ gal./sq.
Base Layer:	One layer of Sopralene Flam Stick, self-adhered, over primed substrate.
Ply Sheet:	None
Membrane:	<p>Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Soprapstar Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.</p> <p>Or</p> <p>Soprapstar Stick, Elastophene Stick HR FR GR, Colphene HR FR GR, Elastophene Stick FR GR or Colphene FR GR, self-adhered to sand surfaced base or ply membrane primed with Elastocol 500, Elastocol Stick or Elastocol Stick Zero applied at ½ gal./sq.</p>
Surfacing:	<p>Surfacing is Optional on granular surfaced field cap membranes.</p> <p>Surfacing is Required for smooth or sanded surfaced field cap membranes.</p> <p>Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications</p> <p>Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system</p>
Maximum Design Pressure:	-60 psf. (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 4:	Lightweight Concrete, Non-Insulated
Deck Description:	Concrecel Lightweight Insulating Concrete, min. 300 psi. over steel deck.
System Type F(2):	Base sheet adhered to substrate
All General and System Limitations apply.	
Deck:	22ga., G-90 steel deck secured to ¼” thick structural supports spaced 6 ft. o.c. using 1½” Tek screws with 1-¼” washers placed at every corrugation 6” o.c. and at 12” o.c. along the edges of the deck.
LWC Deck:	Concrecel Lightweight Insulating Concrete, min. 300 psi. Minimum ¼” slurry of Concrecel Lightweight Concrete poured over the deck. Min. 1 inch EPS Holey-E-Board with a density of 1 lbs./ft ² placed over the slurry. Following day, min. 300 psi. Concrecel Lightweight Insulating Concrete was poured over the EPS Hol-E-Board to a thickness of 2-1/4” thick.
Base Layer:	One layer of Colvent SA, self-adhered.
Ply Sheet:	None
Membrane:	<p>Soprastar Stick, Elastophene Stick HR FR GR, Colphene HR FR GR, Elastophene Stick FR GR or Colphene FR GR, self-adhered to sand surfaced base or ply membrane primed with Elastocol 500, Elastocol Stick or Elastocol Stick Zero.</p> <p>Or</p> <p>Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.</p> <p>Or</p> <p>Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Sopralene 180 Ultra FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Sopralene 250 Ultra FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive at a rate of 1.5 gal./sq.</p>
Surfacing:	<p>Surfacing is Optional on granular surfaced field cap membranes.</p> <p>Surfacing is Required for smooth or sanded surfaced field cap membranes.</p> <p>Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications</p> <p>Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system</p>
Maximum Design Pressure:	-60 psf. (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 4:	Lightweight Concrete, Non-Insulated
Deck Description:	Celcore Cellular Lightweight Insulating Concrete, Min. 300 psi, over structural concrete deck. Or Elastizell Cellular Lightweight Insulating Concrete, Min. 300 psi, over structural concrete deck.
System Type F(3):	Base sheet adhered to substrate.
All General and System Limitations apply.	
LWC Deck:	Celcore Cellular Lightweight Insulating Concrete, Min. 300 psi, wet cast density of 43 lb./ft ³ . 2-inch thick slabs bonded to the concrete in hot asphalt. Or Elastizell Cellular Lightweight Insulating Concrete, Min. 300 psi, wet cast density of 45 lb./ft ³ .
Primer:	Elastocol 500, Elastocol Stick or Elastocol Stick Zero applied at a rate of 1 gal./sq., to top surface substrate, base or ply sheet prior to application of next layer.
Base Sheet:	One layer of Colvent SA, self-adhered.
Ply Sheet:	None
Membrane:	Elastophene Stick FR GR, Colphene FR GR or Soprastar Stick, self-adhered to Elastocol 500, Elastocol Stick or Elastocol Stick Zero primed sand surfaced base or ply membrane. Or Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Soprastar Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied. Or Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Sopralene 180 Ultra FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Sopralene 250 Ultra FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive at a rate of 1.5 gal./sq.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-145 psf. with Elastizell LWC (See General Limitation #9.) -187.5 psf. with Celcore LWC (See General Limitation #9.)



Membrane Type: SBS
Deck Type 4: Lightweight Concrete, Non-Insulated
Deck Description: Celcore Cellular Lightweight Insulating Concrete, Min. 300 psi, over structural concrete deck.

System Type F(4): Base sheet adhered to substrate

All General and System Limitations apply.

LWC Deck: Celcore Cellular Lightweight Insulating Concrete, Min. 300 psi, wet cast density of 43 lb./ft³. 2-inch thick slabs bonded to the concrete in hot asphalt.

Primer: Elastocol 500, Elastocol Stick or Elastocol Stick Zero applied at a rate of 1 gal./sq., to top surface substrate, base or ply sheet prior to application of next layer.

Base Sheet: One layer of Sopralene Stick or Colphene Stick, self-adhered.

Ply Sheet: None

Membrane: Elastophene Stick FR GR, Colphene FR GR or Soprastar Stick, self-adhered to Elastocol 500, Elastocol Stick or Elastocol Stick Zero primed sand surfaced base or ply membrane.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system

Maximum Design Pressure: -242.5 psf. (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 4:	Lightweight Concrete, Non-Insulated
Deck Description:	Celcore Cellular Lightweight Insulating Concrete, Min. 300 psi, over structural concrete deck. Or Elastizell Cellular Lightweight Insulating Concrete, Min. 300 psi, over structural concrete deck.
System Type F(5):	Base sheet adhered to substrate
All General and System Limitations apply.	
LWC Deck:	Celcore Cellular Lightweight Insulating Concrete, Min. 300 psi, wet cast density of 43 lb./ft ³ . 2-inch thick slabs bonded to the concrete in hot asphalt. Or Elastizell Cellular Lightweight Insulating Concrete, Min. 300 psi, wet cast density of 45 lb./ft ³ .
Primer:	Elastocol 500, Elastocol Stick or Elastocol Stick Zero applied at a rate of 1 gal./sq. to the base sheet.
Base Sheet:	One layer of Elastophene Sanded, Colphene Sanded, Soprabase, Sopra 4897, Sopralene 180 Sanded 2.2, Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene HS, Colvent TG, Elastophene Sanded 3.0, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0 in 1 in. ribbons of Soprema PV Adhesive spaced 12" o.c.
Ply Sheet:	None
Membrane:	Elastophene Stick FR GR, Colphene FR GR or Soprastar Stick, self-adhered to Elastocol 500, Elastocol Stick or Elastocol Stick Zero primed sand surfaced base or ply membrane.
Surfacing:	Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system
Maximum Design Pressure:	-325 psf. with Celcore LWC (See General Limitation #9.) -542.5 psf. with Elastizell LWC (See General Limitation #9.)

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant
(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).

(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)

10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 14-0603.17
Expiration Date: 02/22/16
Approval Date: 02/05/15
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